

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF Materials Corporation 1361 Alps Road Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Liberty[™] SBS Self-Adhering Modified Bitumen Roofing Systems Over Steel Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 11-1110.11 consists of pages 1 through 8. The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

<u>Category:</u> Roofing

Sub-Category: Modified Bitumen

Deck Type:SteelMaterial:APP/SBSMaximum Design Pressure:-97.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	Dimensions	Test Specification	Product Description
Liberty [™] SBS Self-Adhering Base/Ply Sheet	39.375" x 66'	ASTM D 6163	Self-Adhered, SBS modified, fiberglass reinforced membrane for base or ply sheet applications.
Ruberoid [®] SBS Heat-Weld [™] Granule	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid [®] SBS Heat-Weld [™] Smooth	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and smooth surfaced.
Ruberoid [®] SBS Heat-Weld [™] 170 FR	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
Ruberoid [®] SBS Heat-Weld [™] Plus	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid [®] SBS Heat-Weld [™] Plus FR	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
Ruberoid [®] SBS Heat-Weld [™] 25	39.37" (1 meter) wide	ASTM D 6163	Non-Woven Polyester mat coated with polymer modified asphalt and smooth surfaced.
Ruberoid® Torch Smooth	39.37" (1 meter) wide	ASTM D 6222	Non-Woven Polyester mat coated with APP modified asphalt and smooth surfaced.
Ruberoid® Torch Granule	39.37" (1 meter) wide	ASTM D 6222	Non-Woven Polyester mat coated with APP modified asphalt and surfaced with mineral granules.



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Product	Dimensions	Test Specification	Product Description
Ruberoid [®] EnergyCap [™] SBS Heat-Weld [™] Plus FR	39.37" (1 meter) wide	ASTM D 6164	Non-woven polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules with factory applied EnergyCote TM .
Ruberoid [®] EnergyCap [™] Torch Granule FR	39.37" (1 meter) wide	ASTM D 6222	Fire-retarding modified bitumen membrane with a factory applied layer of Topcoat [®] EnergyCote TM .
Ruberoid [®] EnergyCap [™] Torch Plus FR	39.37" (1 meter) wide	ASTM D 6222	Fire retarding modified bitumen
Ruberoid® Torch FR	39.37" (1 meter) wide	ASTM D 6222	Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS [®] EnergyCap [™] BUR Mineral Surfaced Cap Sheet	39.4" (1 meter) wide	ASTM D 3909 ASTM E 903 ASTM E 508	Mineral surfaced cap sheet surfaced with extra fine granules and a factory applied layer of $Topcoat^{\mathbb{R}}$ EnergyCote TM .
Matrix [™] 303 Premium Fibered Aluminum Roof Coating	55, 5 gallons	ASTM D 2824	Heavy duty, fibered aluminum asphalt coating that provides reflectivity and protection against moisture and corrosion.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard [™] PolyIso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard [™] RA Insulation, EnergyGuard [™] RN Insulation,	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard [™] Perlite Roof Insulation	Perlite insulation board.	GAF Materials Corp.
DensDeck® Roof Board	Water-resistant gypsum board	Georgia-Pacific Gypsum LLC
DensDeck® DuraGuard® Roof Board	Modified Gypsum Roof Board	Georgia-Pacific Gypsum LLC



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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec [™] #12 Fasteners & Drill-Tec [™] #14 Fasteners	Insulation fastener for steel, wood & concrete decks.	various	GAF Materials Corp.
2.	Drill-Tec [™] XHD Fasteners	Self-tapping coated screw w/#3 Phillips head	various	GAF Materials Corp.
3.	Drill-Tec [™] ASAP	Pre-assembled fasteners and metal and plastic plates.	various	GAF Materials Corp.
4.	Drill-Tec [™] Plastic Insulation Plates	Round Polypropylene plate.	3" & 3-½" round	GAF Materials Corp.
5.	Drill-Tec [™] Metal Insulation Plates	Round galvalume plate.	3" & 3-½" round	GAF Materials Corp.

EVIDENCE SUBMITTED:

Test Agency	Name	Report Identifier	Date
Factory Mutual Research Corp.	4470	3024805	11/20/06
	4470	3036225	08/10/09
Trinity ERD	ASTM D 6164	G6850.08.08-R1	04/14/11
- 1	ASTM D 6222	G6850.11.08	11/05/08
	ASTM D 6222	G6850.10.08	10/06/08
	ASTM D 3909	G6850.08.07-1	08/13/07
	ASTM D 3909	G30250.02.10-3-R1	11/26/12
	ASTM D 6222	G40620.07.12-2	07/17/12
Exterior Research and Design, LLC	ASTM D 5147	18034.03.03-2	04/23/03



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APPROVED ASSEMBLIES:

Membrane Type: APP/SBS

Deck Type 1I: Steel, Insulated

Deck Description: Min. 22 gauge, Type B, wide rib steel deck is secured to minimum 1/4" thick

structural steel supports spaced maximum 6' o.c. using two ICH Traxx/5 fasteners spaced 6" o.c. along each support. Deck side laps fastened with ICH Traxx/1

fasteners spaced maximum 24" o.c.

System Type C(1): Top Insulation is mechanically attached through loose laid base insulation and

optional thermal barrier to the deck. Membrane fully or partially adhered.

(Optional) Thermal Barrier: Min. 1/2" DensDeck® Roof Board or Min. 3/4" EnergyGuard[™] Perlite Roof Insulation is loose laid over the deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard™ PolyIso Insulation, EnergyGuard™ RA Insulation, EnergyGuard™ RN Insulation, Minimum 2" thick N/A N/A

Note: Base Insulation layer and (optional) thermal barrier are loose laid over the deck and simultaneously mechanically attached with the top layer of the insulation as specified below.

Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer Insulation Fasteners (Table 3) Density/ft²

DensDeck® DuraGuard® Roof board

Minimum 1/4" thick 2 & 5 1:1.33

Note: Top layer of insulation, prior to the mechanical fastening listed above, is adhered to the base layer of insulation with OlyBond500[™] Adhesive Fastener applied in serpentine pattern with a minimum 3/4" wide ribbons spaced a maximum of 12" o.c. prior to the fastening of the top layer of insulation to the deck. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Liberty[™] SBS Self-Adhering Base/Ply Sheet, self-adhered with minimum 3" wide laps

and rolled with a weighted roller.

Ply Sheet: (Optional) One layer of Liberty[™] SBS Self-Adhering Base/Ply Sheet, self-adhered with

minimum 3" wide laps and rolled with a weighted roller.

Membrane: One or more layers of Ruberoid[®] SBS Heat-Weld[™] 25, Ruberoid[®] SBS Heat-Weld[™]

Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Plus FR, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® EnergyCap™ SBS Heat Weld Plus FR, Ruberoid® Torch Smooth, Ruberoid® Torch Granule, Ruberoid® EnergyCap™ Torch Granule FR, Ruberoid® Torch FR or Ruberoid® EnergyCap™ Torch Plus FR with minimum 3" wide laps and applied according to

manufacturer's application instructions.

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Surfacing:

(Optional on granular surfaced membranes but required over smooth surfaced membranes.) Install one of the following:

- 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
- 2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ BUR Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- 3. Matrix[™] 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.

Maximum Design

Pressure:

-97.5 psf (See General Limitation # 7)



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Membrane Type: APP/SBS

Deck Type 1I: Steel, Insulated

Deck Description: Min. 22 gauge, Type B, wide rib steel deck is secured to minimum ¹/₄" thick

structural steel supports spaced maximum 6' o.c. using two ICH Traxx/5 fasteners spaced 6" o.c. along each support. Deck side laps fastened with ICH Traxx/1

fasteners spaced maximum 24" o.c.

System Type C(2): Insulation is mechanically attached through loose laid optional thermal barrier to

the deck. Membrane fully or partially adhered.

(Optional) Thermal Barrier: Min. 1/2" DensDeck® Roof Board or Min. 3/4" EnergyGuard™ Perlite Roof Insulation is loose laid over the deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener
(Table 3) Density/ft²
EnergyGuard™ PolyIso Insulation, EnergyGuard™ RA Insulation, EnergyGuard™ RN Insulation

EnergyGuard Polylso Insulation, EnergyGuard RA Insulation, EnergyGuard RN Insulation Minimum 2" thick 1 & 5 1:1.45

Note: Optional thermal barrier is loose laid over the deck and simultaneously mechanically attached with the insulation layer as specified above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: Liberty[™] SBS Self-Adhering Base/Ply Sheet, self-adhered with minimum 3" wide

laps and rolled with a weighted roller.

Ply Sheet: (Optional) One layer of Liberty[™] SBS Self-Adhering Base/Ply Sheet, self-adhered

with minimum 3" wide laps and rolled with a weighted roller.

Membrane: One or more layers of Ruberoid[®] SBS Heat-Weld[™] 25, Ruberoid[®] SBS Heat-Weld[™]

Smooth, Ruberoid[®] SBS Heat-Weld[™] Granule, Ruberoid[®] SBS Heat-Weld[™] 170 FR, Ruberoid[®] SBS Heat-Weld[™] Plus FR, Ruberoid[®] SBS Heat-Weld[™] Plus, Ruberoid[®] EnergyCap[™] SBS Heat Weld Plus FR, Ruberoid[®] Torch Smooth, Ruberoid[®] Torch Granule, Ruberoid[®] EnergyCap[™] Torch Granule FR, Ruberoid[®] Torch FR, or Ruberoid[®] EnergyCap[™] Torch Plus FR with minimum 3" wide laps

and applied according to manufacturer's application instructions.

Surfacing: (Optional, on granular surfaced membranes but required over smooth membranes.)

Install one of the following:

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat

of approved asphalt at 60 lbs./sq.

2. GAFGLAS[®] Mineral Surfaced Cap Sheet, GAFGLAS[®] EnergyCap[™] BUR Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within

the EVT range and at a rate of 20-40 lbs./sq.

3. Leak Buster Matrix 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.

Maximum Design

Pressure: -60 psf (See General Limitation # 7)

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STEEL DECK SYSTEM LIMITATIONS:

- If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gauge attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY APPROVED

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